Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
CD40	GeneSeq Accession Y33499	WO9945944	Activities associated with Apoptosis apoptosis, NF-kB activation, activation, and co-stimulation of immune stimulation can cells such as T and B cells.  assays known assays known assays known as T and B cells.	activity, nd B and T n be determin i in the art: N nce, 285(5425	NF-kB Soluble CD40 polypeptides cell co- may be useful for inhibiting ed using apoptosis, NF-kB activation, doore et and/or co-stimulation of 1.260-3; immune cells such as B and T
EDAR	Genbank		Sci U S A 94(18):9792-6; and Nissen-Meyer, 15 Immunol. Methods.  Activities associated with Apoptosis activity.		Epsevik 86, J. NF-kB Immune Disorders,
	Accession AAD50077	-	apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.		
				al., 1999, Science, 285(542);200-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	
OX40; ACT-4	GeneSeq Accession R74737	WO9512673	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Activities associated with Apoptosis activity, NF-kB Immune Disorder apoptosis, NF-kB activation, activation, and B and T cell co-Lymphomas, T cell disorders and co-stimulation of immune stimulation can be determined using cells such as T and B cells.  assays known in the art: Moore et al., 1999, Science, 285(5425):260-3;	NF-kB Immune Disorders, cell co-Lymphomas, T cell disorders ed using foore et
				Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
TACI	GeneSeq	WO9839361	Activities associated with	associated with Apoptosis activity, NF-kB Soluble TACI receptor	Soluble TACI receptor
	Accession		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-polypeptides may be useful for	polypeptides may be useful for
	W75783		and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using inhibiting apoptosis, NF-kB	inhibiting apoptosis, NF-kB
			cells such as T and B cells.	assays known in the art: Moore et activation, and/or co-	activation, and/or co-
				al., 1999, Science, 285(5425):260-3; stimulation of immune cells	stimulation of immune cells
				Song HY etal., 1997 Proc Natl Acad such as B and T cells.	such as B and T cells.
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
		:	:	Immunol. Methods.	
TNF-R	GeneSeq	AU9058976	Activities associated with Apoptosis activity,		NF-kB Soluble TNF-R receptor
	Accession R10986		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-polypeptides may be useful for	polypeptides may be useful for
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using inhibiting apoptosis, NF-kB	inhibiting apoptosis, NF-kB
			cells such as T and B cells.	assays known in the art: Moore et activation, and/or co-	activation, and/or co-
				al., 1999, Science, 285(5425):260-3; stimulation of immune cells	stimulation of immune cells
				Song HY etal., 1997 Proc Natl Acad such as B and T cells.	such as B and T cells.
	,			Sci U S A 94(18):9792-6; Epsevik	
,,,,				and Nissen-Meyer, 1986, J.	
•				Immunol. Methods.	
TNF-RII; TNF	GeneSeq	EP418014	Activities associated with	associated with Apoptosis activity, NF-kB Soluble TNFR-II receptor	Soluble TNFR-II receptor
p75 Receptor;	Accession R11141		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-polypeptides may be useful for	polypeptides may be useful for
Death Receptor			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using inhibiting apoptosis, NF-kB	inhibiting apoptosis, NF-kB
-			cells such as T and B cells.	assays known in the art: Moore et activation, and/or co-	activation, and/or co-
				al., 1999, Science, 285(5425):260-3; stimulation of immune cells	stimulation of immune cells
				Song HY etal., 1997 Proc Natl Acad such as B and T cells.	such as B and T cells.
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	- 10-
				Immunol. Methods.	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
hAPO-4; TROY	GeneSeq Accession	WO9911791	Activities associated with apoptosis, NF-kB activation.	Activities associated with Apoptosis activity, NF-kB apoptosis. NF-kB activation. activation and B and T cell co-	NF-kB Immune Disorders, Cancers
	W93581		and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
			-	Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
!				Immunol. Methods.	
TNF-alpha	GeneSeq	EP205038	Activities associated with	associated with Apoptosis activity, NF-kB	NF-kB inflammatory disorders,
precursor	Accession P60074		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
			,	Song HY etal., 1997 Proc Natl Acad	
_				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
Human TNF-	GeneSeq	EP619372	Activities associated with	associated with Apoptosis activity, NF-kB	NF-kB inflammatory disorders,
alpha	Accession R62463		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human TNF.	GeneSeq	EP563714	Activities associated with Apoptosis	activity,	NF-kB inflammatory disorders,
alpha	Accession R42679	-	apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
-				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
Human TNF-	GeneSeq	WO0064479	Activities associated with Apoptosis activity,	Apoptosis activity, NF-kB	NF-kB inflammatory disorders,
beta (LT-alpha)	beta (LT-alpha) Accession B37799		apoptosis, NF-kB activation,	activation, and B and T cell co- immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
- T- T				Sci U S A 94(18):9792-6; Epsevik	
			-	and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
LT-alpha	GeneSeq	EP250000	Activities associated with Apoptosis	activity,	NF-kB inflammatory disorders,
	Accession P70107		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
LT-beta	GeneSeq	WO9413808		Apoptosis activity, NF-kB	NF-kB inflammatory disorders,
	Accession R56869		apoptosis, NF-kB activation,	activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cance
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	!
OPGL	GeneSeq	WO9846751	Activities associated with	associated with Apoptosis activity, NF-kB inflammatory	inflammatory disorders,
	Accession		apoptosis, NF-kB activation,	activation, and B and T cell co- immunologic	immunologic disorders,
***************************************	W83195		and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using cancer, loss of bone mass,	cancer, loss of bone mass,
			cells such as T and B cells.	assays known in the art: Moore et	
			-	al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
		-		Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
FasL	GeneSed	WO9903999	Activities associated with	associated with Apoptosis activity, NF-kB	NF-kB inflammatory disorders,
	Accession		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cance
	W98071		and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	•
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
FasL	GeneSeq Accession	WO9903998	Activities associated with apoptosis, NF-kB activation,	Activities associated with Apoptosis activity, NF-kB inflammatory disorders apoptosis, NF-kB activation, activation, and B and T cell co- immunologic disorders, cancer	NF-kB inflammatory disorders, cell co- immunologic disorders, cancer
	W95041		and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et al., 1999, Science, 285(5425):260-3:	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	14
				and Nissen-Meyer, 1986, J.	
		7 C 7 C 7 C 7 C 7 C 7 C 7 C 7 C 7 C 7 C			
CDZ/L	GeneSed	WO9405691	Activities associated with	associated with Apoptosis activity, NF-kB	NF-kB inflammatory disorders,
	Accession R50121		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
•				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
			•	Immunol. Methods.	
CD30 ligand	GeneSeq	WO9324135	Activities associated with	associated with Apoptosis activity, NF-kB	NF-kB inflammatory disorders,
	Accession R45007		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	,
				Immunol. Methods.	

Activities associated with Apoptosis activity, NF-kB inflammatory disorders, apoptosis, NF-kB activation, activation, and B and T cell communication of immune stimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY et al., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik
and co-stimulation of immune stimulation can be determined using cells such as T and B cells.  al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):972-6; Epsevik
assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik
al., 1999, Scienc Song HY etal., Sci U S A 94(
cons such as 1 and 12 cons.

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
OX40L	GeneSeq	WO9521915	Activities associated with Apoptosis	activity,	NF-kB inflammatory disorders,
	Accession R79903		apoptosis, NF-kB activation,	apoptosis, NF-kB activation, activation, and B and T cell co-immunologic disorders, cancer	immunologic disorders, cancer
			and co-stimulation of immune	and co-stimulation of immune stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
Protease	GeneSeq	WO9106561	Peptides that inhibit the	HIV protease activities are known in HIV, inflammatory disorders,	HIV, inflammatory disorders,
inhibitor	Accessions		function/binding of HIV	the art: HIV protease assays:	immunologic disorders,
peptides	R12435, R12436,			EP0387231. One can modify the	cancer, viral infections
	R12437, R12438,			assay to look for inhibition using	
	R12439, R12440,			any of the disclosed protease	
	and R1244			inhibitor polypeptides.	
Retroviral	GeneSeq	EP387231	Peptides that inhibit the	HIV protease activities are known in HIV, inflammatory disorders,	HIV, inflammatory disorders,
protease	Accessions		function/binding of HIV	the art: HIV protease assays:	immunologic disorders,
inhibitors	R06660, R06661,			EP0387231. One can modify the	cancer, viral infections
_	R06662, R06663,			assay to look for inhibition using	
	R06664, R06665,			any of the disclosed protease	_
	R06666, R06667,			inhibitor polypeptides.	
	R06668, R06669,				
	R06670, R06671,				
	R06672, R06673,				
	R06674, R06675,				
	and R06676				The state of the s

y Preferred Indication Y	wn in HIV, inflammatory disorders,			ည	-																											
Exemplary Activity Assay	HIV protease activities are known in	the art: HIV protease assays:	EP0387231. One can modify the	assay to look for inhibition using	any of the disclosed protease	inhibitor polypeptides.	-			-		-																				
Biological Activity	Peptides that inhibit the	function/binding of HIV				,																										
PCT/Patent Number	WO9301828																													1		
Exemplary Identifier	GeneSeq	Accessions	R59293, R59294,	R59295, R59296	, R59297,	R59298, R59299,	R59300, R59301,	R59302, R59301,	R59302, R59303,	R59304, R59305,	R59306, R59307,	R59308, R59309,	R59310, R59311,	R59312, R59313,	R59314, R59315,	R59316, R59317,	R59318, R59319,	R59320, R59321,	R59322, R59323,	R59324, R59325,	R59326, R59327,	R59328, R59329,	R59330, R59331,	R59332, R59333,	R59334, R59335,	R59336, R59337,	R59338, R59339,	R59340, R59341,	R59342, R59343,	R59344, R59345,	R59346, R59347,	R59348, R59349,
Therapeutic Protein X	HIV protease	inhibiting	peptides																													

Preferred Indication Y	HIV, inflammatory disorders, immunologic disorders, cancer, viral infections	HIV, inflammatory disorders, immunologic disorders, cancer, viral infections
Exemplary Activity Assay	HIV protease activities are known in the art: HIV protease assays: EP0387231. One can modify the assay to look for inhibition using any of the disclosed protease inhibitor polypeptides.	HIV protease activities are known in the art: HIV protease assays: EP0387231. One can modify the assay to look for inhibition using any of the disclosed protease inhibitor polypeptides.
Biological Activity	Peptides that inhibit the function/binding of HIV	Peptides that inhibit the function/binding of HIV
PCT/Patent Number	DE4412174	WO9959615
Exemplary Identifier	GeneSeq Accessions R86326, R86327, R86332, R86331, R86334, R86331, R86334, R86337, R86336, R86337, R86336, R86341, R86344, R86341, R86346, R86347, R86346, R86347, R86350, R86351, R86352, R86351, R86354, R86357, R86356, R86351, R86366, R86361, R86366, R86361, R86366, R86361, R863670, and R86360, and R86361, R86365,	GeneSeq Accession Y89687
Therapeutic Protein X	HIV-1 protease inhibitors	HIV Inhibitor Peptide

Exemplary I Identifier	aber	ity		Preferred Indication Y
F	WO9948513 Peptide function	Peptides that inhibit the function/binding of HIV t	HIV protease activities are known in the art: HIV protease assays: EP0387231. One can modify the assay to look for inhibition using any of the disclosed protease inhibitor polypeptides.	HIV, inflammatory disorders, immunologic disorders, cancer, viral infections
	Peptide function	Peptides that inhibit the function/binding of HIV	s are known in issays: nodify the ition using otease	HIV, inflammatory disorders, immunologic disorders, cancer, viral infections
	WO9509232 Chemol related involve ranging angioge traffick family a diverse includir tissue re and turn chemok acting c transme coupled human describe recepton	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly liverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ	Immune disorders, particularly useful for treating bacterial and/or viral menigitis

Preferred Indication Y	Immune disorders, particularly	useful for treating bacterial	and/or viral menigitis															:
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9509232		-				•											
Exemplary Identifier	GeneSeq	Accession R73914												·				
Therapeutic Protein X	Human	monocyte	chemoattractant	factor hMCP-1														

Preferred Indication Y	Immune disorders, inflammatory disorders, blood- related disorders, stem cell transplantation, cancer
Exemplary Activity Assay	Chemokine activities can be Immune disorders, determined using assays known in inflammatory disorders the art: Methods in Molecular related disorders, stem Biology, 2000, vol. 138. Chemokine transplantation, cancer Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc.,  Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and gramily are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	W09429341
Exemplary Identifier	GeneSeq Accessions R66699 and W17671
Therapeutic Protein X	Human gro-beta chemokine

				_	_	_		_	_		_	_	_	_		_	_	
Preferred Indication Y	Immune disorders,	inflammatory disorders, blood-	related disorders, stem cell	transplantation, cancer														
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols, Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ							_			
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	W09429341																	
Exemplary Identifier	GeneSeq	Accessions	R66700 and	W17672														
Therapeutic Protein X	Human gro-	gamma	chemokine															

Preferred Indication Y	Immune disorders,	inflammatory disorders, blood-	related disorders, stem cell	transplantation, cancer														_
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Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ		_		_						
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9429341									•								
Exemplary Identifier	GeneSeq	Accessions	R66698 and	W18024														
Therapeutic Protein X	Human gro-	alpha	chemokine															

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human	GeneSeq	WO9632481	Chemokines are a family of	Chemokine activities can be	Immune disorders, partcularly
eosinophil-	Accession		related small, secreted proteins	determined using assays known in	treatment of eosinophilia,
expressed	W05186		involved in biological processes	the art: Methods in Molecular	inflammation, allergies,
chemokine			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	asthma, leukaemia and
(EEC)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	lymphoma
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	-
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

									_									
Preferred Indication Y	Cancer and blood-related	disorders, particularly	myelosuppression							_								
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ			•							
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9613587																	
Exemplary Identifier	GeneSeq		R92318 and															
Therapeutic Protein X	Chemokine-like	protein PF4-414	Full-Length and	Mature														

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Preferred Indication Y	Cancer and blood-related	disorders, particularly	myelosuppression															
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ; and Holmes et al	(1991)Science 253, 1278-80.									
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9613587																	
Exemplary Identifier	GeneSeq	protein IL-8M3   Accession R99812																
Therapeutic Protein X	Chemokine-like	protein IL-8M3																

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
interleukin-8	Acc		related small, secreted proteins	determined using assays known in	disorders, particularly
(IL-8)			involved in biological processes	the art: Methods in Molecular	myelosuppression
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
-			diverse range of pathologies	Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
	-		human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine-like		WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein IL-8M1	4		related small, secreted proteins	determined using assays known in	disorders, particularly
Full-Length and			involved in biological processes	the art: Methods in Molecular	myelosuppression
Mature	R99803		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	-
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
		-	human chemokines have been		
			described, which bind to ~17		
	•		receptors thus far identified.	. !!	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine-like		WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein IL-8M8			related small, secreted proteins	determined using assays known in	disorders, particularly
Full-Length and	R99816 and		involved in biological processes	the art: Methods in Molecular	myelosuppression
Mature	R99805		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
		-	angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
-			diverse range of pathologies	[Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
_			tissue rejection, viral infection,		
			and tumor biology. The		
-			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X			)		
Chemokine-like		WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein IL-8M9			related small, secreted proteins	determined using assays known in	disorders, particularly
Full-Length and	R99817 and		involved in biological processes	the art: Methods in Molecular	myelosuppression
Mature			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly   Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		•
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		. !

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Preferred Indication Y	Cancer and blood-related	disorders, particularly	myelosuppression							,							***	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ; and Holmes et al	(1991)Science 253, 1278-80.									
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9613587																	
Exemplary Identifier	GeneSeq	Accessions	R99818 and	R99804														
Therapeutic Protein X	Chemokine-like	protein IL-	8M10 Full-	Length and	Mature													

Preferred Indication Y	Cancer and blood-related disorders, particularly myelosuppression
Exemplary Activity Assay	'n in nokine C.A.
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes the art: Methods in Molecular ranging from hematopoiesis, and leukocyte angiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9613587
Éxemplary Identifier	GeneSeq Accessions R99819 and R99807
Therapeutic Protein X	Chemokine-like protein PF4-M2 Full-Length and Mature

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine-like		WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein PF4-426			related small, secreted proteins	determined using assays known in	disorders, particularly
Full-Length and	R99822 and		involved in biological processes	the art: Methods in Molecular	myelosuppression
Mature	R99811		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
		-	diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		,
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		:

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Preferred Indication Y	Immune disorders																	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9622374																	
Exemplary Identifier	GeneSeq	Accession R98499					-											
Therapeutic Protein X	Human foetal	spleen	expressed	chemokine,	FSEC													

Preferred Indication Y	Inflammation of the liver																	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	6/691960M																	
Exemplary Identifier	GeneSeq	Accession R95689											-					
Therapeutic Protein X	Liver expressed		(LVEC-1)															

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Preferred Indication Y	Inflammation of the liver																	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to $\sim 17$	receptors thus far identified.
PCT/Patent Number	WO9616979							٠										
Exemplary Identifier	GeneSeq	Accession R95690																
Therapeutic Protein X	Liver expressed	chemokine-2	(LVEC-2)															

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Pituitary	GeneSeg	WO9616979	Chemokines are a family of	Chemokine activities can be	Inflammation, particularly of
expressed	Accession R95691		related small, secreted proteins	determined using assays known in	the liver
chemokine			involved in biological processes	the art: Methods in Molecular	
(PGEC)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols, Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
_			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
-			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	<b>Exemplary Activity Assay</b>	Preferred Indication Y
Protein X	Identifier				
Adenoid-	GeneSeq	WO9617868	Chemokines are a family of	Chemokine activities can be	Inflammation, angiogenesis,
expressed	Accession R97664		related small, secreted proteins	determined using assays known in	tumorigenesis,
chemokine			involved in biological processes	the art: Methods in Molecular	musculoskeletal disorders
(ADEC)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9741230	Chemokines are a family of	Chemokine activities can be	Immune disorders, cell
chemokine CC-	Accession		related small, secreted proteins	determined using assays known in	migration, proliferation, and
7	W38170		involved in biological processes	the art: Methods in Molecular	differentiation disorders
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
,			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9741230	Chemokines are a family of	Chemokine activities can be	Immune disorders, cell
chemokine	Accession		related small, secreted proteins	determined using assays known in	migration, proliferation, and
HCC-1	W38171		involved in biological processes	the art: Methods in Molecular	differentiation disorders
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Exe	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
g	GeneSeq	WO9741230	Chemokines are a family of	Chemokine activities can be	Immune disorders, cell
chemokine CC- Acc	cession		related small, secreted proteins	determined using assays known in	migration, proliferation, and
W	W38172		involved in biological processes	the art: Methods in Molecular	differentiation disorders
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	a ara
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		,

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Novel beta-	GeneSeq	WO9739126	Chemokines are a family of	Chemokine activities can be	Immune disorders, vascular
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders, cancer
designated	W27271		involved in biological processes	the art: Methods in Molecular	
PTEC			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The	-	
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
_			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	lisorders,	inflammatory diseases,	abnormal proliferation,	regeneration, degeneration,	hy													
Prefe	Immune disorders,	inflamma	abnormal		and atrophy													
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ				·.						
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9727299				-													
Exemplary Identifier	GeneSeq	4	W23344														,	
Therapeutic Protein X	Human CX3C	111 amino acid	chemokine															

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Preferred Indication Y	Abnormal physiology and	development disorders, can	also be used as an anti-viral	agent												-		
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and turnor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9721812																	
Exemplary Identifier	GeneSeq	Accession	W25942															
Therapeutic Protein X	Human CCF18	chemokine																

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human beta-	GeneSeq	WÒ9725427	Chemokines are a family of	Chemokine activities can be	Chemotaxis, blood-related
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders, viral infection, HIV,
H1305 (MCP-2)	W26655		involved in biological processes	the art: Methods in Molecular	wound healing, cancer
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9712914	Chemokines are a family of	Chemokine activities can be	Inflammatory and immune
eosinocyte CC	Accession		related small, secreted proteins	determined using assays known in	disorders
type chemokine	W14990		involved in biological processes	the art: Methods in Molecular	
eotaxin			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	disorders
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte angiogenesis, and leukocyte family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9711969
Exemplary Identifier	GeneSeq Accession W14917
Therapeutic Protein X	Human thymus and activation regulated cytokine (TARC)

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Preferred Indication Y	Cancer, wound healing,	immune disorders																
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ			-							
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9712041																	
Exemplary Identifier	GeneSeq	Accession	W16315															
Therapeutic Protein X	Human	chemokine beta-	8 short forms			4.4.												

Therapeutic Protein X	Exemplary Identifier	Exemplary PCT/Patent Number Identifier	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Macrophage	GeneSeq	WO9640923	Chemokines are a family of	Chemokine activities can be	Inflammatory diseases, wound
derived	Accession		related small, secreted proteins	determined using assays known in	healing, angiogenesis
chemokine,	W20058		involved in biological processes	the art: Methods in Molecular	1
MDC			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
4.			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9844117	Chemokines are a family of	Chemokine activities can be	Inflammatory and immune
chemokine	Accession		related small, secreted proteins	determined using assays known in	diseases
ZSIG-35	W30565		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17	,	
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Primate CC	GeneSeq	WO9832858	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders, abnormal
"ILINCK"	06669M		involved in biological processes	the art: Methods in Molecular	proliferation, regeneration,
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	generation and atrophy
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
•			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by	,	
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

PCT/Patent Number
Chemokines are a family of
related small, secreted proteins
nvolved in biological processes
ranging from hematopoiesis,
angiogenesis, and leukocyte
trafficking. Members of this
family are involved in a similarly Power. © Humana Press Inc.,
diverse range of pathologies
including inflammation, allergy,
tissue rejection, viral infection,
and tumor biology. The
chemokines exert their effects by
acting on a family of seven
transmembrane G-protein-
coupled receptors. Over 40
human chemokines have been
described, which bind to ~17
receptors thus far identified.

Therapeutic Protein X	_	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human CC-type		WO9831809	Chemokines are a family of	Chemokine activities can be	Immune, inflammatory, and
chemokine			related small, secreted proteins	determined using assays known in	infectious disorders, cancer
protein			involved in biological processes	the art: Methods in Molecular	
designated SLC			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
(secondary			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
lymphoid			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
chemokine)			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
_			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been	-	
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human CC	GeneSeq	WO9826071	Chemokines are a family of	Chemokine activities can be	Cancer and infectious diseases,
chemokine ELC	Accession		related small, secreted proteins	determined using assays known in	particularly herpes virus
protein	W62542		involved in biological processes	the art: Methods in Molecular	
_			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
-			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly   Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		-
			tissue rejection, viral infection,		
			and tumor biology. The		
-			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
		,	coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human DVic-1	GeneSeq	WO9823750	Chemokines are a family of	Chemokine activities can be	Abnormal proliferation,
C-C chemokine	Accession		related small, secreted proteins	determined using assays known in	regeneration, degeneration,
	W60649		involved in biological processes	the art: Methods in Molecular	and atrophy disorders,
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	including cancer
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly   Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Immune disorders, cell	proliferation disorders, cancer	•															
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9823750																	
Exemplary Identifier	GeneSeq	Accession	W60650				•											
Therapeutic Protein X	Human C-C	chemokine	DGMCC															

Preferred Indication Y	Immune disorders, particularly T cell related disorders, viral infection, and inflammation, especially joint
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and jeucyten involved in biological processes ranging from hematopoiesis, and leukocyte ranging from hembers of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, diverse rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9824907
Exemplary Identifier	GeneSeq Accession W62783
Therapeutic Protein X	Human STCP-1

Preferred Indication Y	Immune and inflammatory	disorders, angiogenesis,	cancer, and proliferation	disorders, particularly	myeloproliferative diseases													
Exemplary Activity Assay		'n in		Biology, 2000, vol. 138: Chemokine   d	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity			ses	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9821330																	
Exemplary Identifier	GeneSeq	Accession	W61279									~						
Therapeutic Protein X	Exodus protein																	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9814581	Chemokines are a family of	Chemokine activities can be	Cancer and degenerative
Chr19Kine	Accession		related small, secreted proteins	determined using assays known in	disorders
protein	W50887		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		_
			receptors thus far identified.		

Preferred Indication Y	Immune, inflammatory, and	infectious disorders, cancer							·									
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	recentors thus far identified
PCT/Patent Number	US5780268													<u>-</u>				
Exemplary Identifier	GeneSeq	Accession	W58703															
Therapeutic Protein X	Human T cell	mixed	lymphocyte	reaction	expressed	chemokine	(TMEC)											

Preferred Indication Y	Cancer and degenerative	disorders	****														-	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9814581																	
Exemplary Identifier	GeneSeq	Accession	W50885															
Therapeutic Protein X	Human 6CKine	protein																

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
human liver and	GeneSeq	WO9817800	Chemokines are a family of	Chemokine activities can be	Immune, inflammatory, and
activation	Accession		related small, secreted proteins	determined using assays known in	infectious disorders, cancer
regulated	W57475		involved in biological processes	the art: Methods in Molecular	_
chemokine			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
(LARC)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly   Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
		-	human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.	,	

Preferred Indication Y	Infectious diseases,	particularly HIV									-							
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ						*				
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9744462														-			
Exemplary Identifier	GeneSeq	Accession	W29538															
Therapeutic Protein X	RANTES	peptide																

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
RANTES 8-68	GeneSeq	WO9744462	Chemokines are a family of	Chemokine activities can be	Infectious diseases,
	Accession		related small, secreted proteins	determined using assays known in	particularly HIV
	W29529		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	181
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly   Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Infectious diseases, particularly HIV	
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ	
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-	coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9744462	
Exemplary Identifier	GeneSeq Accession W29528	
Therapeutic Protein X	RANTES 9-68	

Preferred Indication Y	Abnormal proliferation,	regeneration, degeneration or	atrophy, including cancer	1														
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9811226	-						-						-				
Exemplary Identifier	GeneSeq	Accession	W59433													-		
Therapeutic Protein X	Human	chemokine	protein 331D5			•••												

Biological Activity
Chemokines are a family of
related small, secreted proteins
involved in biological processes
ranging from hematopoiesis,
angiogenesis, and leukocyte
trafficking. Members of this
family are involved in a similarly Power. © Humana Press Inc.,
diverse range of pathologies
including inflammation, allergy,
tissue rejection, viral infection,
and tumor biology. The
chemokines exert their effects by
acting on a family of seven
transmembrane G-protein-
coupled receptors. Over 40
human chemokines have been
described, which bind to ~17
receptors thus far identified.

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine	GeneSeq	WO9809171	Chemokines are a family of	Chemokine activities can be	Immune, inflammatory, and
MCP-4	Accession		related small, secreted proteins	determined using assays known in	infectious diseases
	W56690		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
-			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
•			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

	_	_		_	_	_			_									
Preferred Indication Y	HIV infections																	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	FR2751658			,														
Exemplary Identifier	GeneSeq	Accession	W50766															
Therapeutic Protein X	Human stromal	cell-derived	chemokine,	SDF-1														

Preferred Indication Y	Immune and inflammatory	disorders									•							
Exemplary Activity Assay	Chemokine activities can be Ir	determined using assays known in di	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Ačtivity	Chemokines are a family of	related small, secreted proteins	involved in biological processes		angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9801557																	
Exemplary Identifier	GeneSeq	Accession	W44397				•											
Therapeutic Protein X	Thymus	expressed	chemokine	(TECK)														

	_	_			_													_
Preferred Indication Y	Immune and inflammatory	disorders																
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9801557																	
Exemplary Identifier	GeneSeq	Accession	W44398															
Therapeutic Protein X	Human	chemokine	MIP-3alpha															

PCT/Patent Number Biological Activity Exemplary Activity Assay
WO9801557 Chemokines are a family of Chemokine activities can be
related small, secreted proteins determined using assays known in
involved in biological processes   the art: Methods in Molecular
ranging from hematopoiesis, Biology, 2000, vol. 138: Chemokine
angiogenesis, and leukocyte Protocols. Edited by: A.E.I.
trafficking. Members of this Proudfoot, T.N.C. Wells, and C.A.
family are involved in a similarly Power. © Humana Press Inc.,
diverse range of pathologies   Totowa, NJ
including inflammation, allergy,
tissue rejection, viral infection,
and tumor biology. The
chemokines exert their effects by
acting on a family of seven
transmembrane G-protein-
coupled receptors. Over 40
human chemokines have been
described, which bind to ~17
receptors thus far identified.

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
1 OLCIII A	Taenturer		4		
Human	GeneSeq	WO9802459	Chemokines are a family of	Chemokine activities can be	Immune disorders, respiratory
monocyte	Accession		related small, secreted proteins	determined using assays known in	disorders, cancer
chemotactic	W42072		involved in biological processes	the art: Methods in Molecular	
proprotein			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
(MCPP)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
sednence			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
2-1-1			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40	-	
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Immune, and inflammatory disorders, cancer
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	US5932703 US5932703
Exemplary Identifier	GeneSeq Accessions W40811 and Y24414
Therapeutic Protein X	Macrophage- derived chemokine (MDC)

	Γ		_		_		_								_			
Preferred Indication Y	Immune and inflammatory	disorders	***								-							
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to $\sim 17$	receptors thus far identified.
PCT/Patent Number	US5932703		-								٠							
Exemplary Identifier	GeneSeq	Accession																
Therapeutic Protein X	Macrophage	derived	chemokine	analogue MDC-	eyfy													

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Macrophage	GeneSeq	US5932703	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
derived			related small, secreted proteins	determined using assays known in	disorders
chemokine			involved in biological processes	the art: Methods in Molecular	
analogue MDC			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
(n+1)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
		-	trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	•
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Macrophage	GeneSeq	US5932703	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
derived	Accession		related small, secreted proteins	determined using assays known in	disorders
chemokine	Y24415		involved in biological processes	the art: Methods in Molecular	
analogue MDC-			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
yl			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
-			described, which bind to ~17		
			receptors thus far identified.		

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Preferred Indication Y	Allergic diseases and HIV	infection																
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	JP11243960																	
Exemplary Identifier	GeneSeq	Accession	Y43178															
Therapeutic Protein X	Human type CC	chemokine	eotaxin 3	protein	sednence													

CT/Patent Number
WO9946392
including inflammation, allergy,
tissue rejection, viral infection,
and tumor biology. The

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human IP-10	GeneSeq	WO9946392	Chemokines are a family of	Chemokine activities can be	Cancer and immune disorders,
and human	Accession		related small, secreted proteins	determined using assays known in	particularly HIV infection
Muc-1 core	Y29894		involved in biological processes	the art: Methods in Molecular	
epitope (VNT)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
fusion protein			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
	_		family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
•			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Cancer and immune disorders,	particularly HIV infection																
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9946392					-												
Exemplary Identifier	GeneSeq	Accession	Y29897															
Therapeutic Protein X	Human IP-10	and HIV-1	gp120	hypervariable	region fusion	protein												

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Preferred Indication Y	Breast disease, including	cancer																
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9936540																	
Exemplary Identifier	GeneSeq	Accessions	Y29092 and	Y29093														
Therapeutic Protein X	Human	mammary	associated	chemokine	(MACK)	protein Full-	Length and	Mature										

Preferred Indication Y	Inflammation due to stimuli such as heart attacks and stroke, infection, physical trauma, UV or ionizing radiation, burns, frostbite or corrosive chemicals
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine trauma, UV or ionizing Protocols. Edited by: A.E.I. radiation, burns, frostbit Proudfoot, T.N.C. Wells, and C.A. corrosive chemicals Power. © Humana Press Inc.,  Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number	WO9933990
Exemplary Identifier	GeneSeq Accession Y28290
Therapeutic Protein X	Tim-1 protein

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human Lkn-1	GeneSeq	WO9928473 and	Chemokines are a family of	Chemokine activities can be	HIV infection and cancer,
Full-Length and	d Accessions	W09928472	related small, secreted proteins	determined using assays known in	particularly leukemia
Mature protein	Y17280, Y17274,		involved in biological processes	the art: Methods in Molecular	
	Y17281, and		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
	Y17275		angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
		•	receptors thus far identified.		

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Preferred Indication Y	Inhibit or stimulate	angiogenesis, inhibit the	binding of HIV	)														
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, Nj				-						
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopolesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9920759			-														
Exemplary Identifier	GeneSeq	•																
Therapeutic Protein X	N-terminal	modified	chemokine met-	hSDF-1 alpha				_										

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
N-terminal	GeneSeq	WO9920759	Chemokines are a family of	Chemokine activities can be	Inhibit or stimulate
modified			related small, secreted proteins	determined using assays known in	angiogenesis, inhibit the
chemokine met-			involved in biological processes	the art: Methods in Molecular	binding of HIV,
hSDF-1 beta			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	antiinflammatory;
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	immunosuppressant
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

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Preferred Indication Y	Inhibit or stimulate	angiogenesis, inhibit the	binding of HIV,	antiinflammatory;	immunosuppressant	•												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ							**			
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9920759											-						
Exemplary Identifier	GeneSeq	Accession	Y05820															
Therapeutic Protein X	N-terminal	modified	chemokine	GroHEK/hSDF-	1alpha				•									

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Preferred Indication Y	Inhibit or stimulate	angiogenesis, inhibit the	binding of HIV,	antiinflammatory;	immunosuppressant													
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9920759																	
Exemplary Identifier	GeneSeq	Accession	Y05821															
Therapeutic Protein X	N-terminal	modified	chemokine	GroHEK/hSDF-	1beta.													

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein A	Identifier				
Chemokine	GeneSeq	WO9912968	Chemokines are a family of	Chemokine activities can be	Increase or enhance an
Eotaxin.	Accession		related small, secreted proteins	determined using assays known in	inflammatory response, an
	Y14230		involved in biological processes	the art: Methods in Molecular	immune response or
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	haematopoietic cell-associated
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	activity; treat a vascular
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	indication; Cancer; enhance
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	wound healing, to prevent or
			diverse range of pathologies	Totowa, NJ	treat asthma, organ transplant
		•	including inflammation, allergy,		rejection, rheumatoid arthritis
			tissue rejection, viral infection,		or allergy
		-	and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
		•	described, which bind to ~17		
			receptors thus far identified.		

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Preferred Indication Y	Immune disorders, Vascular	disorders, Wound healing,	cancer, prevent organ		or enhance an inflammatory	response,												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9912968																	
Exemplary Identifier	GeneSeq	Accession	Y14225															
Therapeutic Protein X	Chemokine	hMCP1a			,													

Preferred Indication Y	Immune disorders, Vascular disorders, Wound healing, cancer, prevent organ transplant rejection, Increase or enhance an inflammatory response,	
Exemplary Activity Assay	Chemokine activities can be Immune disorders, Vascular determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine transplant rejection, Increase Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Pewer. © Humana Press Inc., Totowa, NJ	
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes the art: Methods in Molecular ranging from hematopoiesis, and leukocyte angiogenesis, and leukocyte family are involved in a similarly rester range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9912968	
Exemplary Identifier	GeneSeq Accession Y14226	
Therapeutic Protein X	Chemokine hMCP1b	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine	GeneSeq	WO9912968	Chemokines are a family of	Chemokine activities can be	Immune disorders, Vascular
hSDF1b	Accession		related small, secreted proteins	determined using assays known in	disorders, Wound healing,
	Y14228		involved in biological processes	the art: Methods in Molecular	cancer, prevent organ
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	or enhance an inflammatory
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	response
		-	family are involved in a similarly   Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
		1	and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine hIL-	GeneSeq	WO9912968	Chemokines are a family of	Chemokine activities can be	Immune disorders, Vascular
∞	Accession		related small, secreted proteins	determined using assays known in	disorders, Wound healing,
	Y14229		involved in biological processes	the art: Methods in Molecular	cancer, prevent organ
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	transplant rejection, Increase
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	or enhance an inflammatory
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	response
			family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
			tissue rejection, viral infection,		
			and tumor biology. The		_
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		1

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Preferred Indication Y	Immune disorders, Vascular	disorders, Wound healing,	cancer, prevent organ		or enhance an inflammatory	response												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9912968																	
Exemplary Identifier	GeneSeq	Accession	Y14222															
Therapeutic Protein X	Chemokine	hMCP1																

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Preferred Indication Y	Immune disorders, Vascular	disorders, Wound healing,	cancer, prevent organ	transplant rejection, Increase	or enhance an inflammatory	response												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine   transplant rejection, Increase	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9912968																	
Exemplary Identifier	GeneSeq	Accession	Y14223															
Therapeutic Protein X	Chemokine	hMCP2																

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Preferred Indication Y	Immune disorders, Vascular	disorders, wound nearing, cancer, prevent organ	transplant rejection, Increase	or enhance an inflammatory	response												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9912968																
Exemplary Identifier	GeneSed	Y14224															
Therapeutic Protein X	Chemokine hMCP3	CIONIII															

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
C-C chemokine,	GeneSeq	EP905240	Chemokines are a family of	Chemokine activities can be	Inflammatory, immune and
MCP2	Accession		related small, secreted proteins	determined using assays known in	infectious diseases; pulmonary
	X05300		involved in biological processes	the art: Methods in Molecular	diseases and skin disorders;
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine tumours, and angiogenesis-	tumours, and angiogenesis-
-			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	and haematopoiesis-related
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	diseases
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	-
			including inflammation, allergy,	-	
			tissue rejection, viral infection,		
			and tumor biology. The		
-			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

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Preferred Indication Y	Inflammatory, immune and	infectious diseases; pulmonary	diseases and skin disorders;	tumours, and angiogenesis-	and haematopoiesis-related	diseases												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										:
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	EP906954	,													-			
Exemplary Identifier	GeneSeq	Accession	Y07233															
Therapeutic Protein X	Wild type	monocyte	chemotactic	protein 2							-							

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Truncated		EP906954	Chemokines are a family of	Chemokine activities can be	Inflammatory, immune and
monocyte	Accession		related small, secreted proteins	determined using assays known in	infectious diseases; pulmonary
chemotactic			involved in biological processes	the art: Methods in Molecular	diseases and skin disorders;
protein 2 (6-76)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	tumours, and angiogenesis-
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	and haematopoiesis-related
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	diseases
			family are involved in a similarly   Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
-			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

dication Y	nmune and ationary disorders; giogenesis- ssis-related
Preferred Indication Y	Inflammatory, immune and infectious diseases; pulmonary diseases and skin disorders; tumours, and angiogenesisand haematopoiesis-related diseases
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art. Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	EP905241; EP906954 Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	EP905241; EP906954
Exemplary Identifier	GeneSeq Accessions Y07236 and Y07232
Therapeutic Protein X	Truncated RANTES protein (3-68)

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Preferred Indication Y	Inflammatory, immune and	infectious diseases; pulmonary	diseases and skin disorders;		and haematopoiesis-related	diseases												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ	,									
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. @ Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	EP905241																	
Exemplary Identifier	GeneSeq	Accession	Y07237															
Therapeutic Protein X	Wild type	monocyte	chemotactic	protein 2					-	•								

Fherapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Truncated	GeneSeq	EP905241	Chemokines are a family of	Chemokine activities can be	Inflammatory, immune and
monocyte	Accession		related small, secreted proteins	determined using assays known in	infectious diseases; pulmonary
chemotactic	Y07238		involved in biological processes	the art: Methods in Molecular	diseases and skin disorders;
protein 2 (6-76)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine   tumours, and angiogenesis-	tumours, and angiogenesis-
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	and haematopoiesis-related
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	diseases
			family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	
•			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
-			transmembrane G-protein-		
			coupled receptors. Over 40		
<u>.</u>			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
A partial	GeneSeq	EP897980	Chemokines are a family of	Chemokine activities can be	Soluble CXCR4B receptor
CXCR4B	Accession		related small, secreted proteins	determined using assays known in	polypeptides may be useful for
protein	W97363		involved in biological processes	the art: Methods in Molecular	inhibiting chemokine activities
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine and viral infection.	and viral infection.
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
•			human chemokines have been		
			described, which bind to ~17		•
			receptors thus far identified.		



Preferred Indication Y	Angiogenesis, Cancer,	Inflammatory and Immune	disorders, Cardio-Vascular		disorders													
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	US5871723																	
Exemplary Identifier	GeneSeq	Accession	60L96M															
Therapeutic Protein X	Interferon	gamma-	inducible	protein (IP-10)														

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Frotein A	Identifier				
A monokine	GeneSeq	US5871723	Chemokines are a family of	Chemokine activities can be	Angiogenesis, Cancer,
induced by	Accession		related small, secreted proteins	determined using assays known in	Inflammatory and Immune
gamma-	W96710		involved in biological processes	the art: Methods in Molecular	disorders, Cardio-Vascular
interferon			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
(MIG)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	•
			family are involved in a similarly Power. @ Humana Press Inc.,	Power. © Humana Press Inc.,	•
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		-
-			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		•
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

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Preferred Indication Y	Angiogenesis, Cancer,	Inflammatory and Immune	disorders, Cardio-Vascular		disorders													
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ; and Holmes et al	(1991)Science 253, 1278-80.									
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly   Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	US5871723											_						
Exemplary Identifier	GeneSeq	Accession	W96711															
Therapeutic Protein X	Interleukin-8	(IL-8) protein.																

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Epithelial	GeneSeq	US5871723	Chemokines are a family of	Chemokine activities can be	Angiogenesis, Cancer,
neutrophil	Accession		related small, secreted proteins	determined using assays known in	Inflammatory and Immune
activating	W96712		involved in biological processes	the art: Methods in Molecular	disorders, Cardio-Vascular
protein-78			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine   disorders, Musco-skeletal	disorders, Musco-skeletal
(ENA-78)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly Power. © Humana Press Inc.,	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

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Preferred Indication Y	Angiogenesis, Cancer,	Inflammatory and Immune	disorders, Cardio-Vascular		disorders													
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly Power. © Humana Press Inc.,	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	US5871723																	
Exemplary Identifier	GeneSeq	Accession	. W96713	•														
Therapeutic Protein X	Growth related	oncogene-alpha	(GRO-alpha).						·									